2D Wireless Barcode Scanner

ARP 984353
855152

User's Manual

FCC Compliance

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Changes or modifications not expressly approved by the party responsible for compliance could void the user‘s authority to operate the equipment.

Limited Warranty

No warranty of any kind is made in regard to this material, including, but not limited to, implied warranties of merchantability or fitness for any particular purpose. We are not liable for any errors contained herein or for incidental or consequential damages in connection with furnishing, performance or use of this material. We shall be under no liability in respect of any defect arising from fair wear and tear, willful damage, negligence, abnormal working conditions, failure to follow the instructions and warnings, or misuse or alteration or repair of the products without written approval.

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Introduction

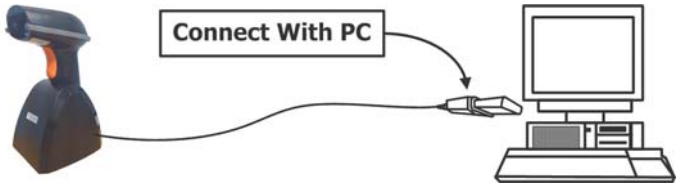
Our 2D Wireless barcode scanner combines the best scanning performance and value. The device provides an accurate, easy, and fast method of data entry and data storage for computerized information systems. It is easy to install and does not require Software or drivers to operate.

Our 2D Wireless barcode scanner is a powerful and reliable handheld scanner without compromise.
All the operating parameters are programmed by bar code programming menu and stored in non-volatile RAM which can retain the settings after power is turned off.

Installation

Insert the plug on the free end of the Communications Cable into the appropriate connector on the host as below described:

Cable Connection:



1. Please switch ON and charge scanner for 4~5 hours at first time before use, scanner switch shown on Fig. 2.
2. After switch ON, the Orange LED will flash following with 3 beep-sounds. The RED LED will be OFF while it links to cradle within 2.4GHz radio range.
3. If RED LED is continual ON, please re-plug USB cable, then, scan the 3 barcodes on the bottom of cradle sequentially. (Shown on Fig. 3 from 1 to 3). If you are unable to complete this setting within 1 minute, please re-plug USB cable & re-start the scanner, and try again.
4. Charging issue: Cradle works as charger when putting scanner on it. Even if the scanner's battery is full, the cradle will continue to supply power to the scanner. We suggest you to remove scanner from cradle when scanner is charged fully.

Indicator Information	
Orange continual ON	Full charged
Orange LED Flash	Charging / Low battery
Red LED Continual ON	Off line / out of service
Green LED ON	Good read

- When the battery voltage is too low, the Orange LED will flash and with one beep sound. Please charge it immediately before the machine mandatorily shutdown. When it shutdown, please full charge then repower on scanner.
- When OFF line/ out of service the 2D Engine will OFF and scanner will not work.
- Under power-saving mode, there will not be LED indication

Reset Configuration to Defaults

If you are unsure of the scanner configuration or have scanned the incorrect codes, please scan the following three barcodes. This will reset the scanner to its factory defaults.

Tip

Do not hold the scanner directly over a barcode at 90˚. Scanning light bounces directly back into the scanner from the barcode label is known as specular reflection which will create a "dead zone" where decoding is difficult. Practice a few times to find what range of angles works best.

Maintenance

Cleaning the scan window is the only maintenance required. A dirty window may affect scanning accuracy.
Wipe the scanner window gently with a lens tissue or other material suitable for cleaning optical material.
Do not spray water or other cleaning liquids directly onto the window.

Setup from Bar Code Label

Transmission Speed

High-speed transmission for PC uses.

Slow-speed transmission for PC use **(Default**).

Wireless Auto-connection

Wireless Auto-connection **ON**: When out of range, it will keep trying to connect to device.

Wireless Auto-connection **OFF**: When out of range, it will stop auto-connecting after sending signal for connecting twenty times. When back to the range, kindly presses trigger to connect to the device **(Default**).

Power-Saving Mode

Power-Saving Mode can extend the usage time of battery. There are 5 modes can be chosen. When Scanner goes into Power-Saving Mode, user can press "SCAN/Trigger" button, it will wake up and begin to scan.

Power-saving mode **OFF**

Enter power-saving mode after no usage for **1** minute **(Default)**

Enter power-saving mode after no usage for **5** minute

Enter power-saving mode after no usage for **15** minute

Enter power-saving mode after no usage for **30** minute

- When in charging, scanner will not enter power-saving mode automatically.

Battery Fully Charged Alarm

ON

OFF **(Default)**

Low Battery Voltage Alarm

ON **(Default)**

OFF

- Under power-saving mode, there will not be LED indication when in charging.

Keyboard Country (For USB HID only)

Scan the appropriate country code below to program the keyboard for your country or language. As a general rule, the following characters are not supported by the scanner for countries other than the United States: @ | $ # { } [ ] = / ‘ \ < > ~

USA (Original setting)

Italian

Norway

France

Germany

Vietnam

Sweden

Spain

Denmark

Portugal

Switzerland

Hungary

**** Code Programming ON**
（Pro CMD : 0006010）

**** Code Programming OFF**
（Pro CMD : 0006000）

Multi-Interface Functions

Save as User Default
(Pro CMD : 0001150)

Load User Default SAVED
(Pro CMD : 0001160)

Operating settings

Trigger Mode

Pro CMD ： 0302000

Auto-Sensing

Pro CMD ： 0302010

**** Code Programming ON**
（Pro CMD : 0006010）

**** Code Programming OFF**
（Pro CMD : 0006000）

Sensor Mode

Normal Sensitivity (= 11)

Pro CMD : 0312010

High Sensitivity (= 8)

Pro CMD : 0312020

Enhanced Sensitivity (= 5)

Pro CMD : 0312030

Low Sensitivity (= 14)

Pro CMD : 0312000

**** Code Programming ON**
（Pro CMD : 0006010）

**** Code Programming OFF**
（Pro CMD : 0006000）

Allow Reading All = enable to read all symbologies and programming codes

Pro CMD : 0001020

Prohibit **Reading All = allow reading programming codes only.**

Pro CMD : 0001010

Allow Reading All 1D

Pro CMD : 0001040

Prohibit Reading All 1D

Pro CMD : 0001030

Allow Reading All 2D

Pro CMD : 0001060

Prohibit Reading All 2D

Pro CMD : 0001050

** Code Programming ON
(Pro CMD : 0006010)

** Code Programming OFF
(Pro CMD : 0006000)

1D Symbologies On/Off – 1

CODE 39

CODE 39 ENABLE
Pro CMD : 0408020

CODE 39 DISABLE
Pro CMD : 0408010

ENABLE * Sign
Pro CMD: 0408090

DISABLE * Sign
Pro CMD: 0408080

CODE 93

CODE 93 - ENABLE
Pro CMD : 0410020

CODE 93 - DISABLE
Pro CMD : 0410010

CODE 128

CODE 128 - ENABLE
Pro CMD : 0400020

CODE 128 - DISABLE
Pro CMD : 0400010

CODABAR

CODABAR - ENABLE
Pro CMD : 0409020

CODABAR - DISABLE
Pro CMD : 0409010

INTERLEAVED 25

INTERLEAVED 25 - ENABLE
Pro CMD : 0405020

INTERLEAVED 25 - DISABLE
Pro CMD : 0405010

**** Code Programming ON**

（Pro CMD : 0006010）

**** Code Programming OFF**

（Pro CMD : 0006000）

1D Symbologies On/Off – 2

UPC/EAN

UPC-A ENABLE

Pro CMD : 0404020

UPC-A DISABLE

Pro CMD : 0404010

UPC-E ENABLE

Pro CMD : 0403020

UPC-E DISABLE

Pro CMD : 0403010

EAN-8 ENABLE

Pro CMD : 0401020

EAN-8 DISABLE

Pro CMD : 0401010

EAN-13 ENABLE

Pro CMD : 0402020

EAN-13 DISABLE

Pro CMD : 0402010

UCC/EAN

EAN-128 ENABLE

Pro CMD : 0412020

EAN-128 DISABLE

Pro CMD : 0412010

Industrial 25

ENABLE

Pro CMD: 0417020

DISABLE

Pro CMD: 0417010

**** Code Programming ON**

（Pro CMD : 0006010）

**** Code Programming OFF**

（Pro CMD: 0006000）

1D Symbologies On/Off – 3

Pro CMD : 0420020

Code 11 ENABLE

Pro CMD : 0415020

ISBN ENABLE

Pro CMD : 0416020

ENABLE

Pro CMD : 0414020

Code 11

ISBN

UCC/EAN Composite

Pro CMD : 0420010

Code 11 DISABLE

Pro CMD : 0415010

ISBN DISABLE

Pro CMD : 0416010

DISABLE

Pro CMD : 0414010

**** Code Programming ON**
（Pro CMD : 0006010）

**** Code Programming OFF**
（Pro CMD : 0006000）

2D Symbologies On/Off - 1

Data Matrix

Data Matrix -ENABLE

Pro CMD : 0504020

Data Matrix -DISABLE

Pro CMD : 0504010

**Forward Direction

Barcode Only

Pro CMD: 0504320

Both

Pro CMD:0504322

Backward Direction

Barcode Only

Pro CMD : 0504321

QR Code

QR Code -ENABLE

QR Code -DISABLE

Aztec

Aztec -ENABLE

Pro CMD : 0503020

Aztec -DISABLE

Pro CMD : 0503010

**** Code Programming ON**
(Pro CMD : 0006010)

**** Code Programming OFF**
(Pro CMD : 0006000)

2D Symbologies On/Off - 2

PDF 417

PDF 417ENABLE

Pro CMD : 0501020

PDF 417 DISABLE

Pro CMD : 0501010

****Forward Direction Barcode**

Pro CMD:0501320

Both

Pro CMD:0501322

Backward Direction Barcode

Pro CMD:0501321

** Code Programming ON
(Pro CMD : 0006010)

** Code Programming OFF
(Pro CMD : 0006000)

Symbologies Set Up - 1

UPC/EAN -8 CHECK Digit

TRANSMIT UCC/EAN-8 CHECK –ENABLE
Pro CMD : 0401040

TRANSMIT UCC/EAN-8 CHECK –DISABLE
Pro CMD : 0401030

UPC/EAN -13 CHECK Digit

TRANSMIT UCC/EAN-13 CHECK –ENABLE
Pro CMD : 0402040

TRANSMIT UCC/EAN-13 CHECK –DISABLE
Pro CMD : 0402030

ISBN Transmit

Transmit 13 digits
Pro CMD : 0416030

Transmit 10 digits
Pro CMD : 0416040

UPC-E CHECK Digit

TRANSMIT UPC-E CHECK –ENABLE
Pro CMD : 0403040

TRANSMIT UPC-E CHECK –DISABLE
Pro CMD : 0403030

UPC-A CHECK Digit

TRANSMIT UPC-A CHECK –ENABLE
Pro CMD : 0404040

TRANSMIT UPC-A CHECK –DISABLE
Pro CMD : 0404030

**** Code Programming ON**
(Pro CMD : 0006010)

**** Code Programming OFF**
(Pro CMD : 0006000)

Symbologies Set Up - 2

Interleaved 25

NO Check, Transmit All
Pro CMD : 0405050

Check, Transmit No Check
Pro CMD : 0405060

Check, Transmit All
Pro CMD : 0405070

CODE 39 FULL ASCII

Code 39 FULL ASCII -ENABLE
Pro CMD : 0408110

Code 39 FULL ASCII -DISABLE
Pro CMD : 0408100

CODE 39 CHECK Digit

NO Check, Transmit All
Pro CMD : 0408050

Check, Transmit No Check
Pro CMD : 0408060

Check, Transmit All
Pro CMD : 0408070

**** Code Programming ON**
(Pro CMD : 0006010)

**** Code Programming OFF**
(Pro CMD : 0006000)

Symbologies Set Up – 3

CODABAR CHECK Digit

NO Check, Transmit All

Pro CMD : 0409050

Check, Transmit No Check

Pro CMD : 0409060

Check, Transmit All

Pro CMD : 0409070

Transmit Both Start & Stop Character

Pro CMD：0409090

Transmit Neither Start & Stop Character

Pro CMD：0409080

CODE 93 CHECK Digit

NO Check, Transmit All

Pro CMD : 0410050

Check, Transmit No Check

Pro CMD : 0410060

Check, Transmit All

Pro CMD : 0410070

**** Code Programming ON**
（Pro CMD ： 0006010）

**** Code Programming OFF**
（Pro CMD ： 0006000）

Symbologies Set Up - 4

Code 11 CHECK Digit

NO Check, Transmit All

Pro CMD : 0415050

Single Check Digit，MOD11

Pro CMD : 0415060

Double Check Digits，MOD10/MOD10

Pro CMD : 0415070

Single Check Digit MOD11（Len <= 10) Double Check Digits MOD11/MOD11 （Len > 10)

Pro CMD : 0415090

Single Check Digit MOD11（Len <= 10) Double Check Digits MOD11/MOD9 (Len > 10)

Pro CMD : 0415100

Do not Transmit Check Digits

Pro CMD : 0415110

Transmit Check Check Digits

Pro CMD : 0415120

**** Code Programming ON**
(Pro CMD : 0006010)

**** Code Programming OFF**
(Pro CMD : 0006000)

Symbologies Set Up – 5

UPC/EAN FORMATING

EXPAND EAN-8 TO EAN-13 ENABLE
Pro CMD : 0401100

EXPAND EAN-8 TO EAN-13 DISABLE
Pro CMD : 0401090

UPC/EAN-8 Addenda Code

2 Digits Addenda ENABLE
Pro CMD : 0401060

2 Digits Addenda DISABLE
Pro CMD : 0401050

5 Digits Addenda ENABLE
Pro CMD : 0401080

5 Digits Addenda DISABLE
Pro CMD : 0401070

UPC/EAN-13 Addenda Code

2 Digits Addenda ENABLE
Pro CMD : 0402060

2 Digits Addenda DISABLE
Pro CMD : 0402050

5 Digits Addenda ENABLE
Pro CMD : 0402080

5 Digits Addenda DISABLE
Pro CMD : 0402070

**** Code Programming ON**
（Pro CMD : 0006010）

**** Code Programming OFF**
（Pro CMD : 0006000）

Symbologies Set Up – 6

UPC-E
Addenda Code

2 Digits Addenda ENABLE

Pro CMD ： 0403060

2 Digits Addenda DISABLE

Pro CMD ： 0403050

5 Digits Addenda ENABLE

Pro CMD ： 0403080

5 Digits Addenda DISABLE

Pro CMD ： 0403070

UPC-E
Default “0”

Do Not Transmit

Pro CMD：0403090

Transmit

Pro CMD：0403100

UPC-A
Addenda Code

2 Digits Addenda ENABLE

Pro CMD ： 0404060

2 Digits Addenda DISABLE

Pro CMD ： 0404050

5 Digits Addenda ENABLE

Pro CMD ： 0404080

5 Digits Addenda DISABLE

Pro CMD ： 0404070

**** Code Programming ON**
（Pro CMD : 0006010）

**** Code Programming OFF**
（Pro CMD : 0006000）

TERMINATION STRING SETUP BAR CODES

STRING# 1
TERMINATION
CHAR - CR

Step 1

Pro CMD ： 0310000

Step 2

Pro CMD : 0000000

Step3

Pro CMD : 0000130

Step4

Pro CMD ： 0000160

STRING# 1
TERMINATION
CHAR - LF

Step 1

Pro CMD ： 0310000

Step 2

Pro CMD : 0000000

Step 3

Pro CMD : 0000100

Step4

Pro CMD ： 0000160

**** Code Programming ON**
（Pro CMD : 0006010）

**** Code Programming OFF**
（Pro CMD : 0006000）

TERMINATION STRING SETUP BAR CODES

STRING# 1
TERMINATION
CHAR - Tab

Step 1

Pro CMD ： 0310000

Step 2

Pro CMD : 0000000

Step3

Pro CMD : 0000090

Step4

Pro CMD ： 0000160

STRING# 1
TERMINATION
CHAR - Space

Step 1

Pro CMD ： 0310000

Step 2

Pro CMD : 0000020

Step 3

Pro CMD : 0000000

Step4

Pro CMD ： 0000160